

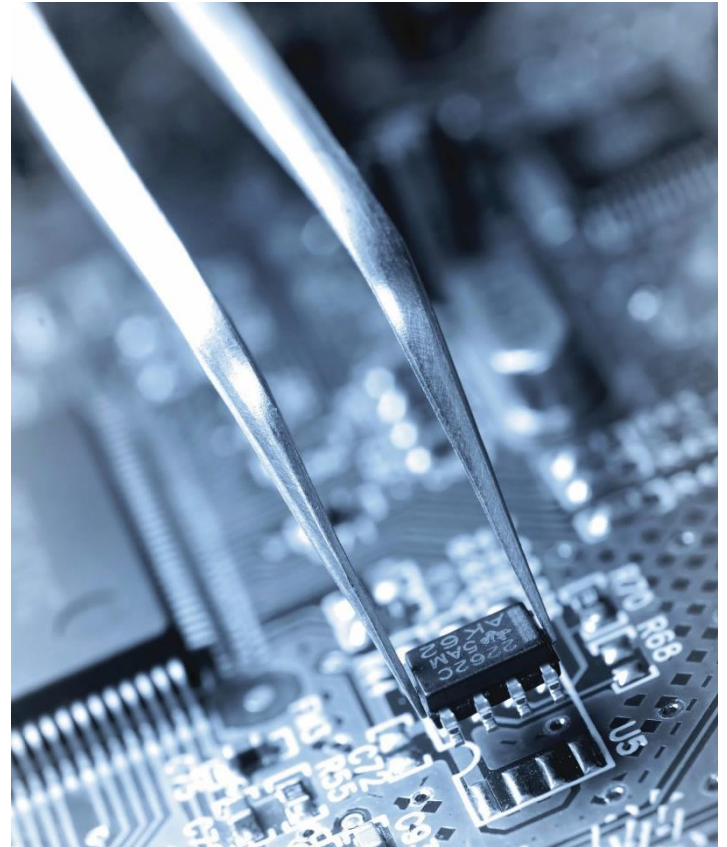
Connecting PTE to Careers: The Division's Perspective

Idaho Professional-Technical Education

Wendi Secrist | Director, Business Outreach & Idaho SkillStack

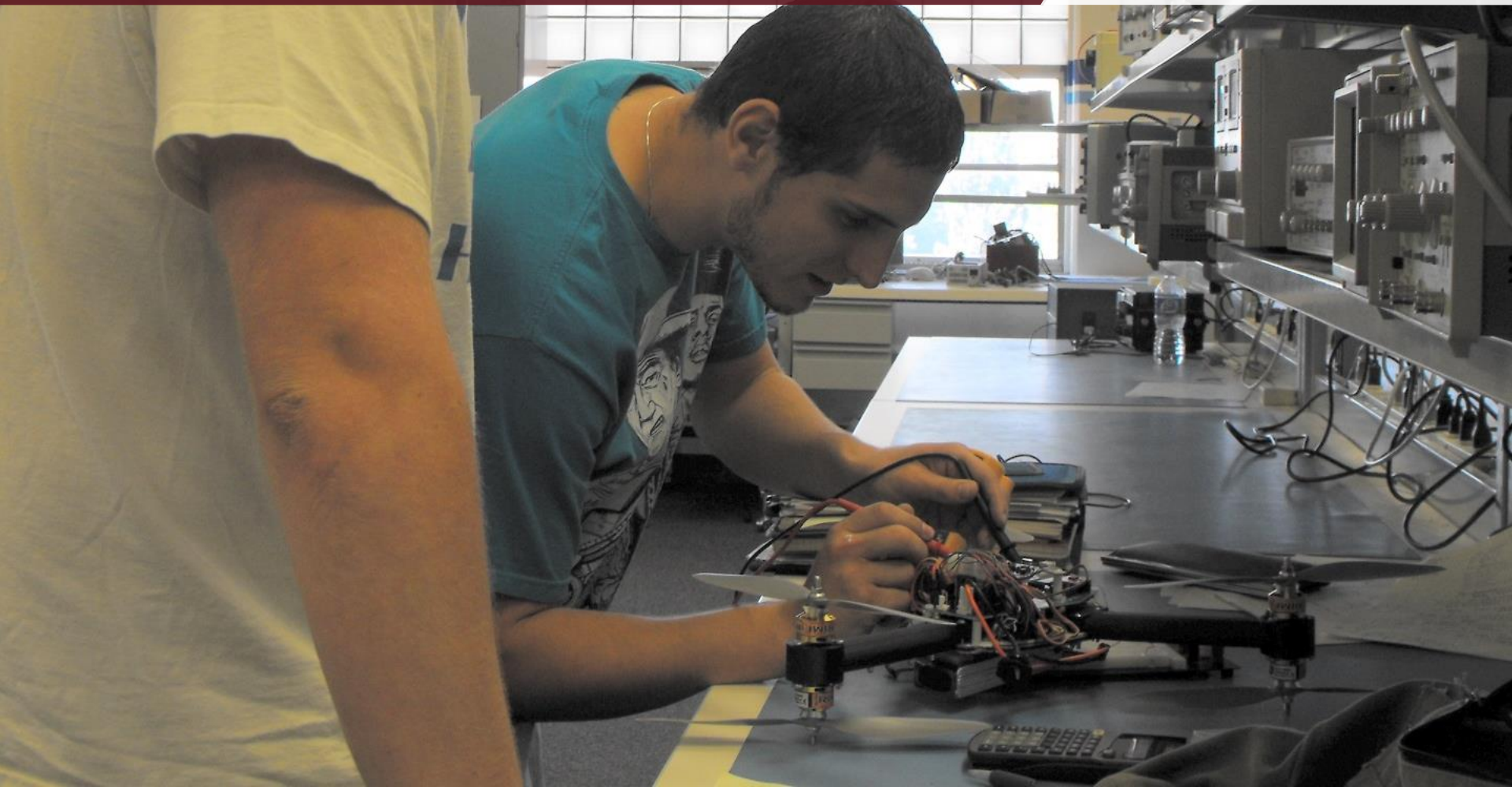
Caty Solace | Communications Manager

July 20, 2015



PTE priorities that connect students and careers...

- Enhancing PTE Image
- Improving Career Guidance
- SkillStack





Division of
Professional-Technical Education

What is Brand?
—the emotional and psychological relationship you
have with your stakeholders. Strong brands elicit
opinions, emotions, and sometimes physiological
responses from stakeholders.

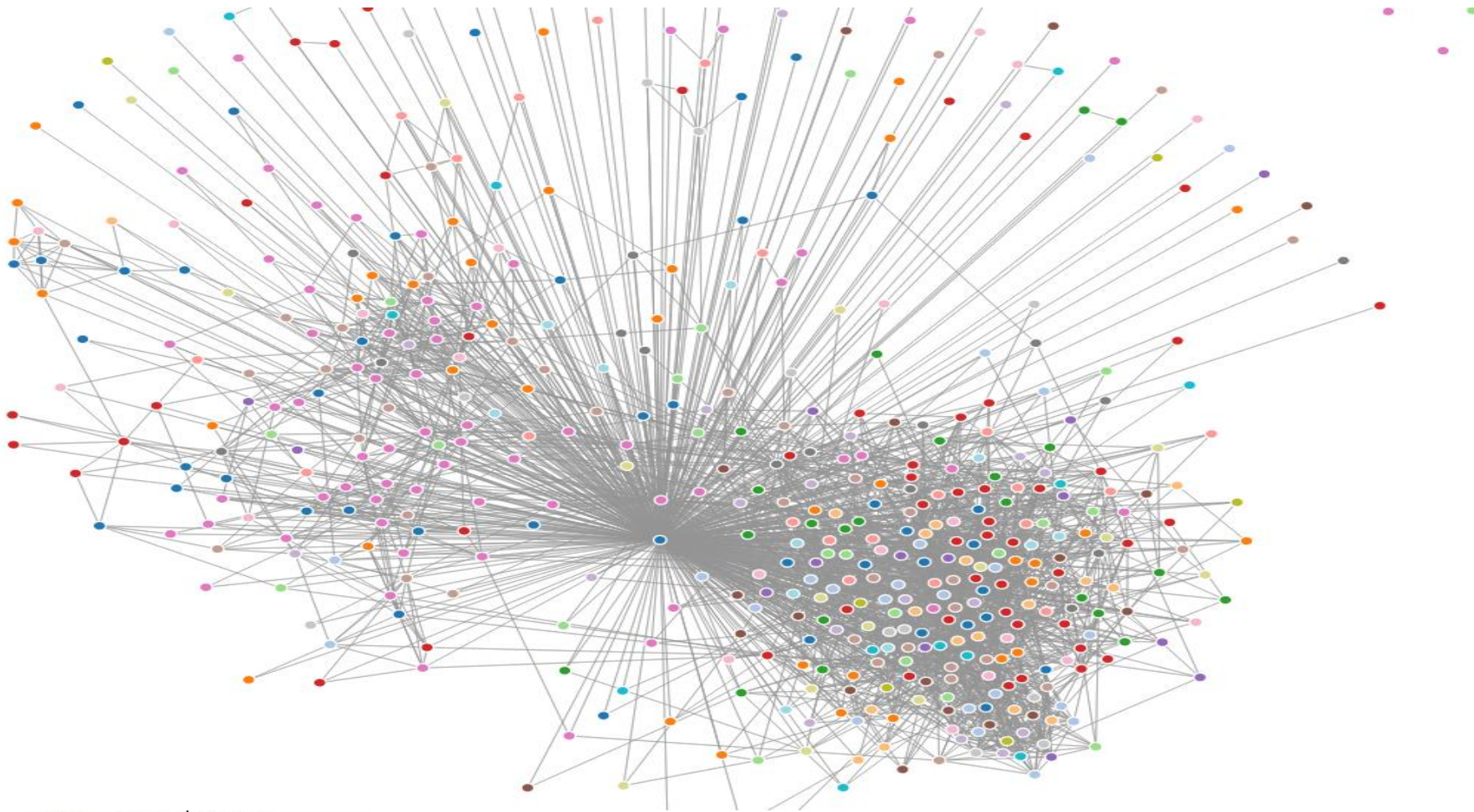
PTE is suffering from an Image Crisis



Communications Plan

- Field Informed
- Visual Brand Elements
- Communication Networks
- Increased Media Presence
- Communication Tools

PTE Image





Communications Plan

- Field Informed
- Visual Brand Elements
- Communication Networks
- Increased Media Presence
- Communication Tools

Enhancing the Conversation



Agriculture, Food, and Natural Resources Individual Graduation Plan

This career cluster plan of study is a source of information as you develop your own personal learning plan. This plan lists EXAMPLES of suggested coursework. Courses will vary according to the availability in each school district. Plans of study should meet high school graduation requirements as well as entrance requirements for a variety of postsecondary options within this career cluster.

Sample

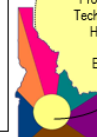
■ Coursework					
Subject	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Advanced Coursework for Postsecondary Credit
Language Arts (9 credits)	<input type="checkbox"/> English 9	<input type="checkbox"/> English 10	<input type="checkbox"/> English 11 <input type="checkbox"/> Speech	<input type="checkbox"/> English 12	<input type="checkbox"/> Tech Prep <input type="checkbox"/> Advanced Placement
Mathematics (8 credits)	<input type="checkbox"/> Algebra I	<input type="checkbox"/> Geometry <input type="checkbox"/> Algebra II	<input type="checkbox"/> Pre-Calculus	<input type="checkbox"/> Calculus	<input type="checkbox"/> Tech Prep <input type="checkbox"/> Advanced Placement
Science (6 credits)	<input type="checkbox"/> Earth Science	<input type="checkbox"/> Biology	<input type="checkbox"/> Chemistry <input type="checkbox"/> Anatomy/Physiology	<input type="checkbox"/> Physics	<input type="checkbox"/> Tech Prep <input type="checkbox"/> Advanced Placement
Social Studies (4 credits)	<input type="checkbox"/> World History	<input type="checkbox"/> US History 10	<input type="checkbox"/> US History 11	<input type="checkbox"/> American Government	<input type="checkbox"/> Tech Prep <input type="checkbox"/> Advanced Placement
Idaho Professional-Technical Education Classes	<input type="checkbox"/> Intro to Ag Education	<input type="checkbox"/> Intro to Ag Mechanics	<input type="checkbox"/> Animal Science <input type="checkbox"/> Plant & Soil Science <input type="checkbox"/> Ag Communications <input type="checkbox"/> Food Science Tech <input type="checkbox"/> Farm Equipment Repair	<input type="checkbox"/> Ag Power & Tech <input type="checkbox"/> Horticulture <input type="checkbox"/> Aquaculture <input type="checkbox"/> Horse Prod/Mgmt <input type="checkbox"/> Welding	<input type="checkbox"/> Ag Economics <input type="checkbox"/> Forestry <input type="checkbox"/> Natural Resources <input type="checkbox"/> Meat Processing <input type="checkbox"/> Veterinary Assisting
Additional Requirements or Electives	<input type="checkbox"/> Physical Education <input type="checkbox"/> Health <input type="checkbox"/> Foreign Language <input type="checkbox"/> Computer Technology	<input type="checkbox"/> Physical Education <input type="checkbox"/> Health <input type="checkbox"/> Foreign Language <input type="checkbox"/> Computer Technology	<input type="checkbox"/> Physical Education <input type="checkbox"/> Health <input type="checkbox"/> Foreign Language <input type="checkbox"/> Computer Technology	<input type="checkbox"/> Economics <input type="checkbox"/> Computer Technology	<input type="checkbox"/> Tech Prep <input type="checkbox"/> Advanced Placement
■ Extended Learning					
School-Based	<input type="checkbox"/> FFA <input type="checkbox"/> Career Research <input type="checkbox"/> Senior Project	<input type="checkbox"/> SkillsUSA <input type="checkbox"/> Cooperative Education	<input type="checkbox"/> Career Days <input type="checkbox"/> Internships <input type="checkbox"/> Service Learning Project	<input type="checkbox"/> Career Interviews <input type="checkbox"/> Job Shadowing	
Community-Based	<input type="checkbox"/> 4-H	<input type="checkbox"/> Mentorships	<input type="checkbox"/> Part-Time Employment	<input type="checkbox"/> Volunteer	

The Agriculture, Food, and Natural Resources Career Cluster has seven pathways that allow students to further explore and discover their favorite career specialties. Students can choose from several levels of education and training to pursue a career in their chosen pathway.

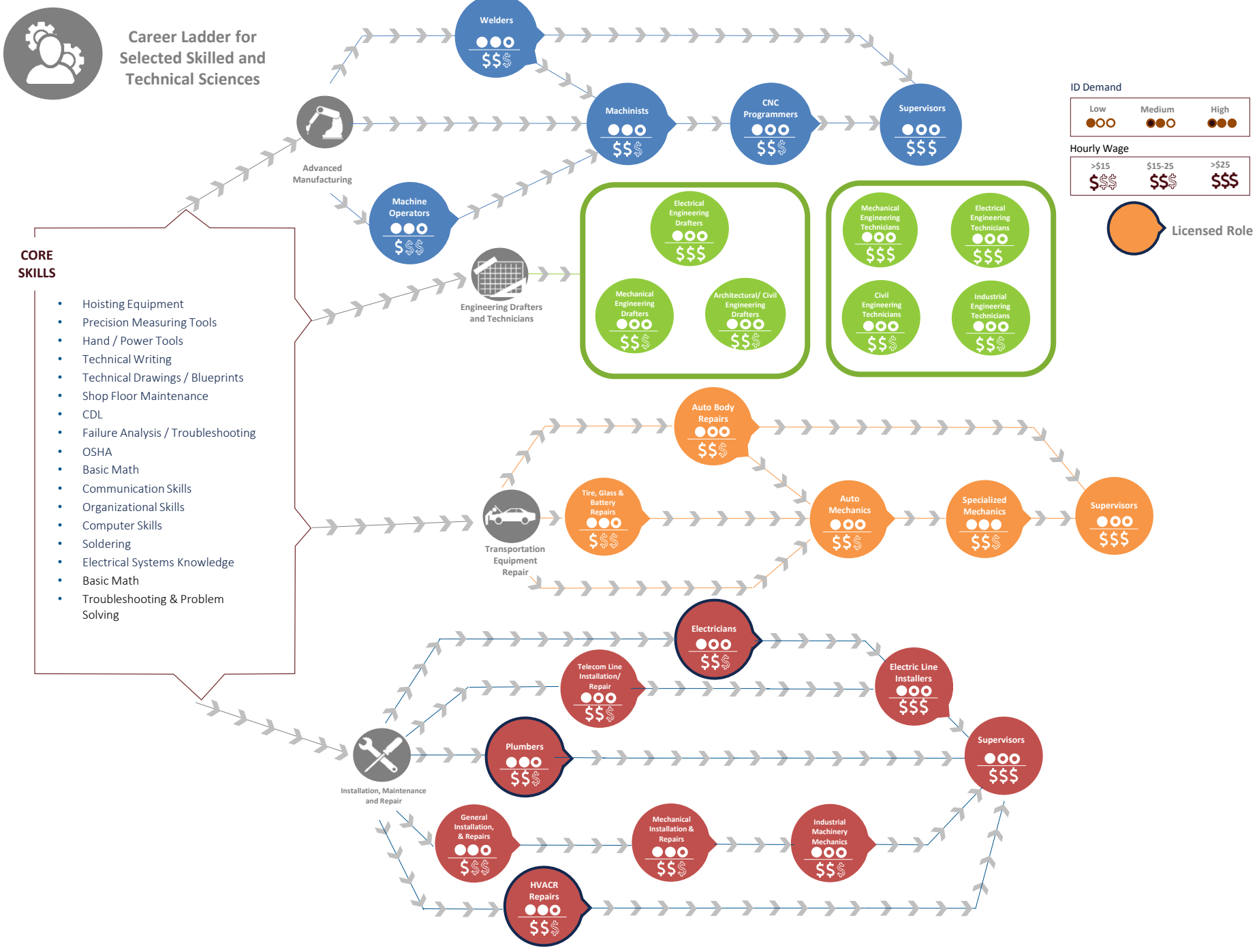
Pathways		Postsecondary Options
<input type="checkbox"/> Animal Systems	<input type="checkbox"/> Food Products & Processing Systems	<ul style="list-style-type: none">• On-the-Job Training• Technical Certificate• Associates Degree• Bachelors Degree• Advanced Degree• Military
<input type="checkbox"/> Agribusiness Systems	<input type="checkbox"/> Natural Resources Systems	
<input type="checkbox"/> Environmental Service Systems	<input type="checkbox"/> Plant Systems	
<input type="checkbox"/> Power, Structural, & Technical Systems		

Foundation Knowledge and Skills

Academics • Communications • Problem Solving • Information Technology • Systems • Safety, Health and Environment • Teamwork • Ethics • Employability and Career Development • Technical Skills

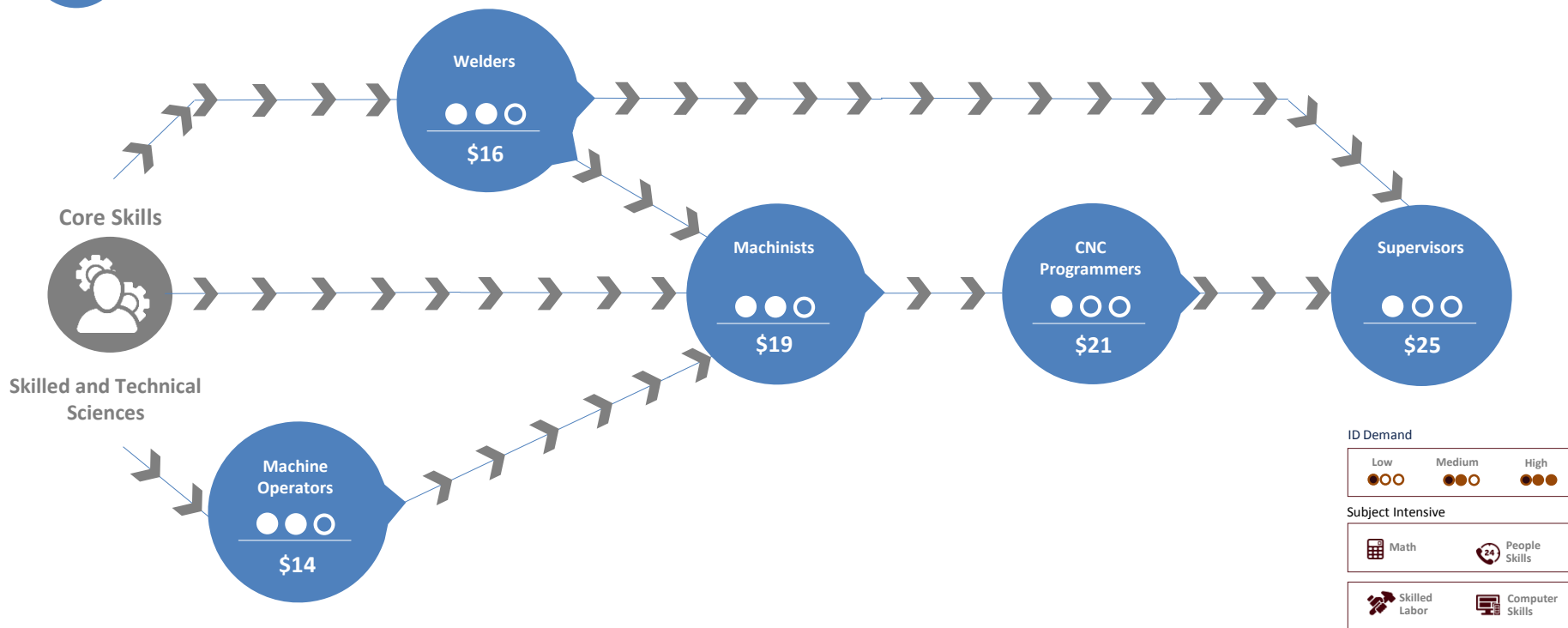


Endorsed by: Idaho Division of Professional-Technical Education





Advanced Manufacturing Pathway



Machine Operators



+

Welders



+

Machinists



+

CNC



+

Supervisors

- Use of hand tools, interpreting blueprints and basic machine operation
- Responsible for cleaning and maintaining manufacturing floor

- Knowledge of metallurgy and various welding techniques

- Operate specialized machine tools to perform precision operations
- Fabricate, inspect and modify machinery parts

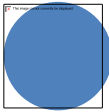
Programmers

- Ability to prepare machinery for operation using numerical computer programming techniques and CAD software

- Coordinate and assess the operations of the manufacturing team
- Manage manufacturing floor for efficient operation

CERTIFICATION IN-DEMAND

- American Welding Society Certification



Advanced Manufacturing Pathway

Machine Operators

- Hand / Power Tool Skills
- Precision Measuring Tools
- Technical Drawings / Blueprints
- Basic Machine Operation
- Manufacturing Floor Maintenance, Inspection and Cleaning

Regulations

- OSHA
- ANSI



Welders

- Welding Techniques e.g. MIG, TIG, GMAW, SMAW
- Metallurgy
- X-Rays



Machinists

- Basic CNC
- Grinders
- Drill Presses
- Milling Cutters
- Coordinate Measuring Machines
- Lathes
- Gauges
- Inspection Instruments
- Geometric Dimensioning and Tolerancing



CNC Programmers

- G & M Code
- CAM Tools
- Process Control & Improvement
- Multi-axis Machining
- CAD Software
 - e.g CATIA, Siemens NX, AutoCAD



Supervisors

- Lean Manufacturing
- Six Sigma
- Good Manufacturing Practices (GMP)
- Performance Management
- Operations Management

CERTIFICATION IN-DEMAND

- American Welding Society Certification

SkillStack and the Workforce Ecosystem

11



Information Asymmetry

12



Who I am



What my resume / transcript
says about me



What HR interprets
from my resume/transcript

What's in it for me?

Business

- Widens the talent pool
- Lower cost to fill
- Improve retention
- Searchable badges = new recruiting source



Skill Matching

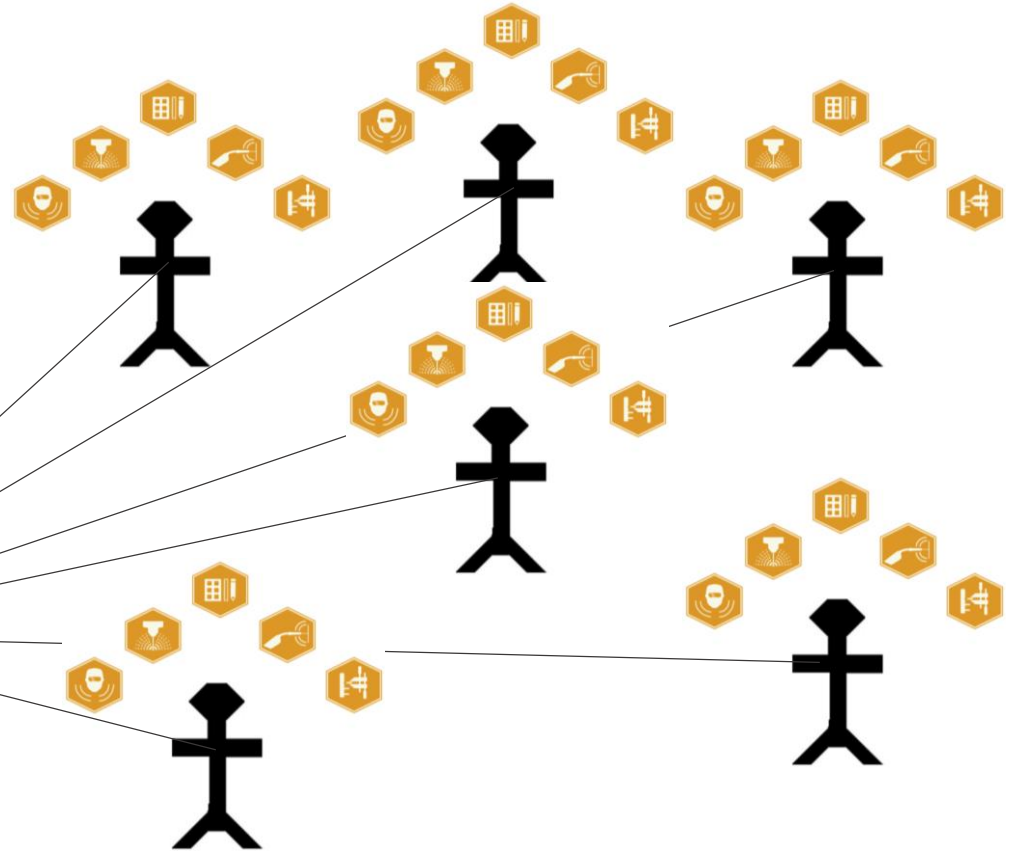
PTE Education = Employment

Needed: Pipe Welders and Pipe Fitters Class A and B – Boise, ID

Responsibilities:

- Read and interpret basic drawings and weld symbol
- Ability to work to welding standards
- Read and interpret drawings, blueprints and specifications to determine layout requirements
- Cut openings for pipe in walls, floors and ceilings using hand or power tools or machines
- Ability to Measure, cut, thread and bend pipe to required shape using hand and power tools
- Test system for leaks using testing equipment
- Clean and maintain pipe units and fittings and flush system
- Install clamps, brackets and hangers to support piping system using hand and power tools

SkillStack Competencies:



What's in it for me?

Education

SECONDARY

- Motivates students towards college and career goals
- Students articulate badges for credit

POST SECONDARY

- Stackable learning/recommended pathways... encourages individuals to keep progressing
- Maintain leadership role in validation of skills
- Potential revenue stream for validating work-based learning



Technical Competency Credit

PTE Education = Employment



= communicates competency



= communicates competency



= communicates competency



= communicates competency

What's in it for me?

Individuals

- Access to jobs
- Recognition for work-based learning
- Credit transfer between secondary and post-secondary PTE programs



What's in it for me?

Government

- Relevant partner to business in developing skill sets that matter
- Maximize training investments
- More people in jobs = less demand on social services AND a higher tax base



SkillStack FY16



Launching this school year:

- Administrative Services
- Collision Repair
- Computer Support
- Diesel Technology
- Early Childhood Development
- Precision Machining
- Programming / Software Development
- Web Design
- Welding





You are our ambassadors

Forge Meaningful Partnerships

- Talent Pipeline for Industry
- We all represent Idaho professional-technical education's image
- Look forward to an enhanced toolkit to connect students and careers

State of the Division



Thank you!